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Morphological change and the influence of language contacts in Estonian

Grünthal, Riho

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MORPHOLOGICAL CHANGE AND THE INFLUENCE OF LANGUAGE CONTACTS IN ESTONIAN

5

Introduction

Kommentar [BiHo1]: Most articles have numbered titles. In case you would like to have yours numbered, too, please let me know.

10 Estonian is an illustrative example of a modern language that was intensively
influenced by morphological attrition and foreign interference during the last
millennium. The most salient typological differences of Estonian with respect
to northern Finnic languages such as Finnish, Karelian and Veps are based on
the loss of several important suffixes, in particular those of certain
grammatical cases. This article discusses the interliaison of morphological and
contact-induced change in the evidence of Estonian inflectional case system,
15 case syncretism and certain adverbial constructions.

The main hypothesis is that diachronic changes often do not happen
independently of one another and endogenous and contact-induced changes in
Estonian affect the same functional domains. The conclusions of this article
are mainly based on language-specific analysis and most of the data is drawn
20 from Estonian. Nevertheless, there are certain parallels between case syncre-
tism in Estonian, Votic and South-West Finnish dialects that will be used for
comparative evidence. Convergent changes suggest that a particular morpho-
logical change does not inevitably have identical consequences even in geneti-
cally closely related languages.

25 Historically, Estonian forms the southern group of the Finnic languages
with Livonian and Votic (Votian) that all share some important morphological
changes such as the loss of the genitive(-accusative) *-n*. In Estonian, this
change took place in the 15th and 16th century (Kingisepp & al. 1997:87-89).
Compared to northern Finnic languages (Finnish, Karelian, Veps, Ingrian) the
30 language contact area of Estonian is different, because it was more intensively
influenced by German (and Low German) than any other Finnic language. The
period of contacts with German lasted from 13th to 20th century and had a
strong impact on Estonian. While Russian loanwords were borrowed from the
east and are most numerous in the southern- and eastern-most Estonian
35 dialects (Koponen 1998:224, Must 2000, Mägiste 1962), loans from German
form the largest group of borrowings from western Indo-European languages.

The German influence is not limited on certain dialects only, because it had special importance in the development of Estonian literary language particularly in its earliest stages. The long contacts between Estonian and German are evidenced by numerous lexical borrowings and it has repeatedly been assumed
 5 that the contacts led to certain syntactic parallels as well (Habicht 2000, Hasselblatt 1990, Hennoste 1997, Hinderling 1981, Laanekask&Erelt 2003:280-310, Pajusalu 2000b).

Typologically, the changes in Estonian morphology increased the importance and frequency of flexive forms. This characteristic separates
 10 Estonian and Livonian from other Finnic languages (Viitso 1998, 2000). Flexion and morphophonological alternation affect grammatical cases most strongly, while more generally speaking, Estonian morphology is predominantly suffixal. The adverbial cases display a consistent suffixal case system in all declension types. Consequently, the language should not be labeled flexive
 15 as a whole but rather, a language with mixed morphological strategies (Ehala 1997, Grünthal 2000, Plank 1998, 1999, Skalička 1975, Tauli 1984, Viitso 1990, 2003). Accordingly, morphological change should be understood as a mixture of different processes as well (Heine & Kuteva 2005:123-171, Werner 1987). Yet, it must be noted that the reduction of suffixal morphology and
 20 word-based distinction between grammatical cases has considerably influenced Estonian noun declension and inflected words actually function as lexical constructions (Blevins 2004, 2005).

The different morphological strategies in Estonian case inflection are important for the goals of the current article as well, because the same cases
 25 that display flexive morphology are also affected by syncretism and inflectional homonymy. The following aims at examining the consequences of morphological change and the historical background will be intertwined only, if it will shed additional light on the relationship between various changes.

30

Morphological change in Estonian

Given the different inflectional strategies in Estonian case morphology, the influence of morphological changes is bicuspid. Stem alternation was considerably
 35 reduced in adverbial cases that exhibit only little allomorphy, whereas grammatical cases display flexive morphology, complicated morphophonological alternation and allomorphy that is lexically ruled. In certain frequent

bisyllabic noun stems the complexity is increased by lucrative case syncretism that will be examined in more detailed below. Blevins (2005:2) claims that from the viewpoint of theoretical morphology and word and paradigm (WP) models the way redundancy and fusion are manifested in Estonian noun declension suggests that they actually are symptoms of morphological ‘over-extraction’. This inevitably leads to a wide-spread mismatch between ‘units of form’ and ‘units of content’ in that there is no obvious rule according to which form and function would correspond to one another. As mentioned, this claim affects most intensively the three grammatical cases as shown in table 1.

	SINGULAR	PLURAL	SINGULAR	PLURAL
	‘son’		‘window’	
NOM	<i>poeg</i>	<i>poja-d</i>	<i>aken</i>	<i>akna-d</i>
GEN	<i>poja</i>	<i>poega-de</i>	<i>akna</i>	<i>aken-de</i>
PART	<i>poega</i>	<i>poeg-i ~ poega-sid</i>	<i>akent</i>	<i>akna-id</i>

Table 1. The inflection of grammatical cases in Standard Estonian.

Those morphological changes that have taken place in Estonian noun inflection influence especially the singular forms of the nominative (NOM), genitive-accusative (GEN) and partitive (PART) case, while suffixal forms play a much bigger role in the distinction of plural forms (cf. table 1). Note that the genitive often occurs as the case of object and as such it historically originates from a (pre)historical accusative *-m. The glossing GEN (in the glossed examples below GEN-ACC) refers to all morphosyntactic properties of the genitive-accusative including the case of possessor-marking genitive attribute and accusative object.

The intensive reduction of the three grammatical cases is crucial for the grammatical system, because all three are cases of nominal core arguments, subject and object, or functionally closely connected to them. The adverbial cases, in turn, were influenced to a certain extent by semantic change. As table 2 demonstrates, the genitive stem in the singular and the genitive form in the plural is systematically the stem to which adverbial case suffixes are attached, and they display consistently the morpheme order stem + number + case in the plural.

	SINGULAR	PLURAL	SINGULAR	PLURAL
	‘son’		‘window’	
ILL	<i>poega</i>	<i>poega-de-sse</i>	<i>akna-sse</i>	<i>aken-de-sse</i>
INESS	<i>poja-s</i>	<i>poega-de-s</i>	<i>akna-s</i>	<i>aken-de-s</i>
ELAT	<i>poja-st</i>	<i>poega-de-st</i>	<i>akna-st</i>	<i>aken-de-st</i>
ALL	<i>poja-le</i>	<i>poega-de-le</i>	<i>akna-le</i>	<i>aken-de-le</i>
ADESS	<i>poja-l</i>	<i>poega-de-l</i>	<i>akna-l</i>	<i>aken-de-l</i>
ABL	<i>poja-lt</i>	<i>poega-de-lt</i>	<i>akna-lt</i>	<i>aken-de-lt</i>
TERM	<i>poja-ni</i>	<i>poega-de-ni</i>	<i>akna-ni</i>	<i>aken-de-ni</i>
TRANSL	<i>poja-ks</i>	<i>poega-de-ks</i>	<i>akna-ks</i>	<i>aken-de-ks</i>
ESS	<i>poja-na</i>	<i>poega-de-na</i>	<i>akna-na</i>	<i>aken-de-na</i>
COM	<i>poja-ga</i>	<i>poega-de-ga</i>	<i>akna-ga</i>	<i>aken-de-ga</i>
ABESS	<i>poja-ta</i>	<i>poega-de-ta</i>	<i>akna-ta</i>	<i>aken-de-ta</i>

Table 2. The inflection of adverbial cases in Standard Estonian.

ILL = illative, INESS = inessive, ELAT = elative, ALL = allative, ADESS =
5 adevsive, ABL = ablative, TERM = terminative, TRANSL = translativ, ESS =
essive, COM = comitative, ABESS = abessive

Given that only the illative singular became closely involved in the continuum
of morphological reduction and loss of suffixes the following analysis is
mainly limited to the grammatical cases. In comparison to the inflection of
10 grammatical cases in table 1, the inflection of adverbial cases in Standard
Estonian is predictable on the basis of the given category, while the inflection
of grammatical cases is not predictable on the basis of the case at issue. In
other words, the grammatical cases display flexive morphology while
adverbial cases display agglutinative morphology. Note that also plural
15 partitive forms of certain word types such as *jalg* foot-NOM: *jala* foot-GEN:
jalga foot.PART: *jala-d* foot-PL(NOM): *jalga-de* foot-PL.GEN: *jalgu* foot.PL.PART
are flexive. This phenomenon is wide-spread in Estonian dialects as well and
has caused the diffusion of analogical plural partitive forms (Alvre 1964,
1989, Laakso 1998, 2000:117-120, Pajusalu 2000a).

20 Thus, several morphological changes can be pointed out in Estonian case
system that demonstrate very different changes in one particular language. The
genitive, for instance is functionally a fusional case because it integrates the
form of the possessor and object. So, complicated lexically based morpho-
logical rules increase the complexity of language. There is ample evidence on

on-going morphological and syntactic changes in modern Estonian (Ehala 1997, Erelt&Metslang 1997). The decrease of allomorphy and productivity of partitive suffixes *-t* in the singular and *-sid* in the plural, for instance, demonstrate a tendency to morphological simplification by means of

analogical forms.
Historically, the following conclusions can be drawn on the development of Estonian case inflection

- **Flexive** forms replaced certain suffixal forms. The rules of flexive forms are based on lexical, not on morphological information.
- The reduction of suffixal and other word-final elements caused case **syncretism**. In certain lexical types it may result in the merger between the case of subject and object.
- Instead of decreasing complexity the reduction of grammatical cases increased the **cumulation of morphosyntactic information** of flexive forms.
- The influence of **analogy** restricted the increase of allomorphy to some extent.
- The **agglutinative** morphology of adverbial cases increased consistency in morphology.

Diverse diachronic changes support the view that language change is not uniform even in one particular language. The development of Estonian case system suggests that certain changes are morphologically innovative, because they considerably renovate the morphological mechanics, while other changes are preservative and reiterate existing ones (cf. Grünthal 2003:32-44). This kind of system in transition most obviously is likely to be sensitive to the influence of language contacts as well. As Heine and Kuteva (Heine&Kuteva 2005:45-46) note, contact-induced new patterns do not emerge from nothing, either, but often result from a long process in which an earlier pattern gives rise to a new one. Recent discussion on the development of phrasal verbs in the Uralic languages has emphasised the importance of both sides. In some languages such as Mansi, Khanty and Hungarian it appears that the rise of the category is endogenous (Honti 1999), while in the case of Estonian the development is somewhat different, because the obvious influence of German (Hasselblatt 2003). Laakso (2001) brings concrete examples on the interwining of endogenous and contact-induced change in Finnic.

In the introduction of this article it was alleged that diachronic changes often do not happen independently of one another. In this section it was pointed out that as regards Estonian case system, the morphological erosion and typological change has affected most intensively the grammatical changes.

5 The rise of flexive morphology and increase of case syncretism presumably are a burden for grammatical functions and made the language more sensitive to grammatical restructuration. The following section discusses the overlapping of cases in inflectional paradigms and the syntactic context of Estonian case syncretism.

10

Case syncretism in Estonian

The most concrete consequence of syncretism is the blurring of the ideal one-to-one correspondence between form and function. In general, the overlapping of different forms may occur between mutually related and non-related morphological categories. Given that random identity between forms may exist in any language that has productive inflectional morphology, syncretic forms have been pointed out in numerous languages. Many Indo-European languages, for instance, display some kind of inflectional homonymy (Carstairs 1984, 1987, Coleman 1976, Delbrück 1907, Johnston 1997, Luraghi 1987, Martínez 2001, Meiser 1992, Plank 1991). (A more comprehensive syncretism database can be found on the home page of Surrey morphological group (<http://www.smg.surrey.ac.uk/Syncretism>).)

15

20

25 Estonian case syncretism has special importance for the nominal core arguments of the clause, i.e. the subject and object. Livonian, one of the most closely related languages with Estonian, demonstrates a similar merger between the nominative and genitive as Estonian (Kettunen 1938:XXXVIII–LI, Tveite 2004). However, the merger between the plural nominative and

30 genitive is systematic in Livonian, whereas Estonian seems to be in a much more intensive state of transition. Unlike singular Estonian plural noun forms are only rarely involved with syncretism. Thus, the morphological realisation of the grammatical cases in singular and plural is divergent as in many Indo-European languages. Another difference between Estonian and Livonian is

35 that in Estonian syncretism affects three grammatical cases, i.e. the nominative, genitive(-accusative) and partitive, while in Livonian it is limited to the two first ones.

According to morphological analyses on Standard Estonian vocabulary there are roughly 78,000 homonymous word forms in the basic vocabulary including both paradigmatic and non-paradigmatic homonymy. The vast majority, 57,000 cases (almost 75 % of the data), represent paradigmatic identity in which two or more inflected forms of one word co-occur (Viks 1984, 1992, Erelt & al. 1997:523–529). Inflectional homonymy is especially wide-spread in noun declension and case system that historically was more strongly influenced by the reduction of suffixal elements than verb conjugation.

The high number of homonymous nominal case forms is caused by the fact that two-syllable stems are most frequent nouns. Table 3 demonstrates the inflection of six two-syllable nouns and the diverging linearity of syncretic forms. The nominative form of the sixth word *siil* ‘hedgehog’ consisted historically of two syllables (cf. Finnish *siili* id.) as most nouns that have a two-syllable inflectional stem. However, numerous one-syllable words that have a two-syllable inflectional stem such as *kepp* ‘stick’ : *kepi* stick.GEN : *keppi* stick.PART and *hind* ‘price’ : *hinna* price.GEN : *hinda* price.PART are not involved with syncretism, because of the loss of the final vowel and consonant gradation that causes the distinction between the three grammatical cases.

The lexical type at issue decides which cases are involved in the syncretism. The five combinations that are most common and cause the overlapping of paradigmatically adjacent singular forms are demonstrated in table 3. Hence, the possible overlappings are nominative-genitive, nominative-genitive-partitive, nominative-partitive, genitive-partitive, and genitive-partitive-illative. It is important to recall here that the genitive is the case of possessor (attribute) and object (as genitive-accusative; see above).

	‘year’	‘nest’	‘war’	‘name’	‘hedgehog’
NOM	<i>aasta</i>	<i>pesa</i>	<i>sõda</i>	<i>nimi</i>	<i>siil</i>
GEN	<i>aasta</i>	<i>pesa</i>	<i>sõja</i>	<i>nime</i>	<i>siili</i>
PART	<i>aasta-t</i>	<i>pesa</i>	<i>sõda</i>	<i>nime</i>	<i>siili</i>
ILL	<i>aasta-sse</i>	<i>pessa</i>	<i>sõtta</i>	<i>nimme</i>	<i>siili</i>

Table 3. The overlapping of syncretic case forms in Estonian.

Generally speaking, case syncretism is very frequent in Estonian and influences numerous nouns and those cases that display flexive forms. It therefore seems that flexion as an inflectional strategy is much less efficient in Estonian

noun declension than agglutinative that unlike flexion does not leave any gaps in the case paradigm. The different diachronic background plays an important role, because agglutination also is a much more permanent strategy, while flexion and syncretism that often adds the morphosyntactic cumulation of individual flexive forms were caused by a relatively recent diachronic change.

Syncretism is repeatedly suggested as a possible explanation for morphological changes in Estonian and other Finno-Ugric languages. The partitive and illative, that are involved with syncretism, are involved with analogy as well. The plural partitive of nouns with a closed second-syllable vowel, such as *nimi* or *kivi* ‘stone’ is analogical *nime-sid* name-PL.PART, *kivi-sid* stone-PL.PART instead of a another syncretic form *nimi* [SG.NOM] : **nimi* [PL.PART] (< **nimi-(i-)tä*) or *kivi* [SG.NOM] : **kivi* [PL.PART] (< **kivi-(i-)tä*). The analogical agglutinative illative form is possible of many albeit not all nouns that display a flexive illative form: *pessa* nest.ILL ~ *pessa-sse* nest-ILL or *nimme* name.ILL ~ *nime-sse* name-ILL (Kettunen 1962 (1929):92-93, 217). Recent loan words such as *auto* ‘car’ : *auto-sse* car-SG.ILL : *auto-sid* car-PL.PART apply the analogical forms as well, which demonstrates the productivity of the agglutinative strategy.

The hypothesis that syncretism is connected with other morphosyntactic changes and may trigger them under certain conditions is justified from the viewpoint of language structure. It is therefore necessary to examine the functional consequences of morphological overlappings in more detail. Tables 4.1, 4.2 and 4.3 present the inflection of three different declension types in Estonian and the distinction between inflectional forms and different functions. The tables include nouns that distinguish between the grammatical cases and flexive inflectional forms in three different ways. The first one *vaene* ‘poor’ (table 4.1) makes, partly by means of suffixes, a morphological distinction between all cases that in certain declension display flexive forms, i.e. the nominative, genitive, partitive and illative. The second one, *kott* ‘bag’ (table 4.2), distinguishes between the grammatical cases by means of flexive forms, while the third one, *saba* ‘tail’ (table 4.3), exhibits extensive syncretism. The difference between morphological forms is compared to their main function as cases of nominal arguments in the tables.

Both the nominative and partitive occur as cases of subject and object. The difference is that the nominative is primarily the case of subject and may occur as the case of object only under restricted conditions. The partitive is primarily the case of object and may occur as the case of subject only under restricted

conditions. Clause semantic rules strictly command upon a seemingly chaotic functional division of grammatical cases so that, as a rule, the nominative is labelled as the case of subject while genitive(-accusative) and partitive are the cases of object. The semantic interpretation of a nominal argument is based on the syntactic position of the constituent and its morphological form.

In table 4.1 the inflection of *vaene* ‘poor’ presents the maximal morphological distinction between the grammatical cases. The difference of the nominative and genitive is based on stem alternation whereas other cases have a suffixal marker. In this sort of paradigms that completely avoid syncretism there is no risk of overlapping between the form of the nominal core arguments.

‘poor’	form		function	
	paradigm	syncretism	distinctive	overlapping
NOM	<i>vaene</i>	–	subject / object	–
GEN	<i>vaese</i>	–	attribute / object	–
PART	<i>vaes-t</i>	–	object / subject	–
ILL	<i>vaese-sse</i>	–	adverbial (spatial)	–

Table 4.1. The declension of nouns that make the maximal distinction between grammatical cases by means of suffixes and flexion.

The second example of morphological distinction between grammatical cases and the paradigm of *kott* ‘bag’ displays exclusively flexive forms. Historically, this paradigm indicates that the distinction between inflectional categories can completely shift from suffixal morphology to flexion without breaking up the opposition between cases. As mentioned, the historical genitive *-n* was completely lost in Estonian, and this word type does not display a suffixal descendant of the historical partitive **-tA*, either. Nevertheless, there is paradigmatic homonymy between the partitive and illative cases, because the form *kotti* represents both of them. Yet, this kind of syncretism does not cause overlapping of functions, because the grammatical role depends on valency and obligatoriness of constituents.

'bag'	form		function	
	paradigm	syncretism	distinctive	overlapping
NOM	<i>kott</i>	–	subject, object	–
GEN	<i>koti</i>	–	attribute, object	–
PART	<i>kotti</i>	+	object, subject	–
ILL	<i>kotisse ~ kotti</i>	(+)	adverbial (spatial)	–

Table 4.2. The declension of nouns that make the maximal distinction between grammatical cases by means of flexion and may display syncretism between the partitive and illative.

- 5 The third alternative is illustrated in table 4.3, in which the distinction between the three grammatical cases is completely interfered by syncretism. In table 3 (see above) it was pointed out that actually the linearity of syncretism depends on the phonological structure of the word. Syncretism between the nominative, genitive and partitive represents the most extreme type. This paradigm affects
- 10 the form of subject and object and actually deletes the distinction between various forms of object. Furthermore, such two-syllable words that have a vowel ending in the nominative and do not display consonant gradation nor any other kind of stem alternation, cannot distinguish between the three first cases of the paradigm.

15

'tail'	form		function	
	paradigm	syncretism	distinctive	overlapping
NOM	<i>saba</i>	+		subject, object
GEN	<i>saba</i>	+	attribute	object
PART	<i>saba</i>	+		object, subject
ILL	<i>sappa ~ sabasse</i>	–	adverbial (spatial)	–

Table 4.3. The declension of nouns that fail to make a distinction between (two or more) grammatical cases and results in an extensive syncretism.

- The inflection of *saba* 'tail' and the same kind of nouns suggests that there must be alternative ways of compensating the inflectional handicap and identical forms (Harris&Campbell 1995:317–325). Some Indo-European
- 20 languages, for instance, have compensated morphological merger with increased use of prepositions (Luraghi 1987). Morphologically, the asymmetry between the paradigm as illustrated in table 4.3 and the others (cf. paradigms

in tables 4.1 and 4.2) consists of several elements. Firstly, flexion fails to compensate the reduction of suffixal inflection. Secondly, the variation of allomorphs affects the partitive and illative which makes the paradigms unpredictable to a certain degree. Thirdly, the mixed morphological strategies of the grammatical cases and allomorphy decrease the uniformity of paradigms.

Blevins (2005:2) claims that property-form mismatches in Estonian declensional system are symptoms of a more general problem, because there is no morphological correspondence between these units. He also notes that inflectional forms cannot be used regressively to reproduce the properties of a noun. This adds evidence on the viewpoint that the rules of Estonian case morphology are lexeme-based.

Table 4.3. demonstrated the way in which syncretic forms affect subject and object. Thus, transitive clause is the context in which the realization and functional consequence of syncretism will have to be examined. Some reports (Erelt&Metslang 1997) have already pointed out changes taking place in Estonian transitive clause. However, given that the current article merely seeks to point out the sources of grammatical change in Estonian, the transitive clause will not be dealt with in more detail in this occasion.

Conclusively, Estonian case system reflects a sort of intermediate state between historical changes and a morphologically more uniform organization of the paradigm of grammatical cases. Case syncretism plays a significant role in the synchronic relationship between different categories and strongly influences the cases of subject and object. Historically, the strong reduction of suffixal elements was crucial for the rise of identical forms in certain paradigms. The next section will therefore discuss the role of syncretism in some other Finnic languages and those morphological changes that would potentially support the assumption that it may trigger subsequent changes.

Syncretism of grammatical cases in other Finnic languages

There are two significant morphological, although chronologically clearly distinct changes that affect the Estonian case system. The merger of the Uralic proto-language genitive (*-n) and accusative (*-m) is shared by all Finnic languages, most Saami languages and Mordvin. This change resulted in a syncretic genitive(-accusative) case. Grammars of individual Finnic languages, such as the largest existing Estonian (Erelt & al. 1993-1995) and Finnish (Ha-

kulinen & al. 2004) academic grammars, mainly present the genitive(-accusative) as (morphologically) one multifunctional and historically dyadic but not syncretic form.

Several millennia later, a subsequent change followed the historical merger
5 of the genitive and accusative. The loss of the genitive(-accusative) *-n* happened in Livonian, Estonian, Vote as well as south-western and south-eastern Finnish dialects. The merger of the genitive(-accusative) must naturally be considered as older and dated to an early proto-language stage that preceded the Proto-Finnic era (Bartens 1999:91-92, Korhonen 1981:212-214,
10 Sammallahiti 1998:65-66), while the loss of the genitive *-n* happened in Estonian only at the end of the Middle Ages (Kingisepp & al. 1997:87-89, Rätsep 1989:1514-1515). Due to a relatively late periodisation of the loss of the genitive(-accusative) *-n* it is most logical to assume convergence in those closely related languages and dialects in which it occurred.

15 The synchronic case paradigms of Livonian, Estonian, Vote and south-western Finnish dialects demonstrate different ways of adapting the case system to those changes that were caused by phonological loss of the suffix. The evidence in this section is drawn from south-western Finnish dialects, and Vote language that was spoken in Ingria on the south-eastern coast of the Gulf
20 of Finland. Livonian exhibits a considerably simplified case paradigm and a complete syncretism between the genitive(-accusative) and nominative in the plural. The distinction between singular forms depends on the declension type and was lost in many paradigms as well.

The point is that those morphological changes that happened in south-
25 western Finnish and Vote influenced the same cases as in Estonian. The singular nominative, genitive(-accusative), partitive and illative forms indicate the dynamics of change in the case system as an inflectional paradigm. Pounonen (2003) demonstrated the similarities between the case system of south-western Finnish dialects and Estonian. The declension table shows the same
30 morphological characteristics as Standard Estonian, namely the extension of flexive forms of those stem types that used to display morphophonological stem alternation (cf. the words *lumi* ‘snow’, *käsi* ‘hand’ and *ranta* ‘shore’ in table 5.1.), and the overlapping of case forms. Syncretism affects most of all certain two-syllable vowel-ending nouns that did not display any morpho-
35 phonological alternation (cf. the words *kala* ‘fish’ and *lasi* ‘glas’ in table 5.1. with the inflection of Estonian nouns in tables 4.1–4.3).

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ESTONIAN

	‘fish’	‘glas’	‘snow’	‘hand’	‘shore’
NOM	<i>kala</i>	<i>lasi</i>	<i>lumi</i>	<i>käsi</i>	<i>ranta</i>
GEN	<i>kala</i>	<i>lasi</i>	<i>lume</i>	<i>käre</i>	<i>ranna</i>
PART	<i>kala</i>	<i>lasi</i>	<i>lun-t</i>	<i>kät</i>	<i>rant-ta</i>

Table 5.1. The inflection of grammatical cases (singular) in south-western Finnish dialects (Paunonen 2003:220).

Table 5.2. demonstrates the declension of the same nouns in Estonian. Note that *kala*, *lumi* and *käsi* are cognate words in Finnish and Estonian with shared prehistoric roots and descend from the earliest known (Uralic) proto-language, while Finnish *ranta*, Estonian *rand* is an old Germanic loanword. Finnish *lasi* (in some dialects *klasi*) was borrowed from Swedish, whereas Estonian *klaas* was borrowed from German (Hinderling:182, Itkonen&Kulonen 1992-2000:2:49, 3:48, Mägiste 1982-83:861, 2409-2410).

Kommentar [BiHo2]: No year here?

	‘fish’	‘glas’	‘snow’	‘hand’	‘shore’
NOM	<i>kala</i>	<i>klaas</i>	<i>lumi</i>	<i>käsi</i>	<i>rand</i>
GEN	<i>kala</i>	<i>klaasi</i>	<i>lume</i>	<i>käe</i>	<i>ranna</i>
PART	<i>kala</i>	<i>klaasi</i>	<i>lun-d</i>	<i>kätt</i>	<i>ran-da</i>

Table 5.2. The inflection of Estonian words corresponding to those of table 5.1.

The fourth case that is involved with syncretism in south-western Finnish dialects is the illative. Paunonen (2003:218) provides three allomorphs of the illative that occur in different areas of south-western Finnish dialects. The first of them *kala* fish.ILL extends the syncretism to four cases, the second *kala-sse* fish-ILL exhibits a similar analogical illative as Estonian, while the third *kala-ha* fish-ILL (in the northern part of the dialect area) descends from the old suffix that was lost elsewhere.

The difference in the development of Vote language is that word-final elements were generally maintained. Thus, unlike Estonian, Livonian and south-western Finnish dialects no systematic apocope took place in Vote. However, the loss of the genitive *-n* and the attrition and loss of the partitive and illative suffix in certain frequent declension types caused a similar morphological dichotomy between syncretic flexive forms and distinct agglutinative cases as in Estonian and south-western Finnish dialects. Table 5.3. demonstrates two inflectional paradigms of the grammatical cases and the

illative of two Vote nouns. The inessive forms illustrates the inflections adverbial cases that, in general, display suffixal morphology as adverbial cases in Estonian do (cf. table 2. above).

	‘sauna’	‘cross’
NOM	<i>sauna</i>	<i>rissi</i>
GEN	<i>saunaa</i>	<i>risii</i>
PART	<i>saunaa</i>	<i>rissi-ä</i>
ILL	<i>saunaa</i>	<i>rissii</i>
INESS	<i>sauna-za</i>	<i>rissi-zä</i>

5 Table 5.3. The inflection of Vote *sauna* ‘sauna’ and *rissi* ‘cross’.

The influence of syncretism in Vote is basically the same as in Estonian and south-western Finnish dialects. Analogical agglutinative forms became allomorphs of the illative, but in addition to it, analogical agglutinative partitive forms are characteristic of Vote (Ariste 1968:43-53, Markus 2006:94-95).
10 Nevertheless, the change was not completely finished by the time 20-century records on Vote were made. Analogical forms did not always replace the syncretic forms, if, for instance, the distinction between semantic roles is based on the semantic structure of the clause. This is illustratively seen in the following three examples that are drawn from the text collection of Ariste (1974). In
15 example (1) the syncretic form *saunaa* is the object of the clause and an obligatory constituent of the transitive clause. Note that in this section the overlapping between the genitive(-accusative), partitive and illative in words like *sauna* in Vote, syncretic forms should actually be glossed GEN-ACC-PART-ILL to illustrate all possible morphosyntactic properties of one particular form.
20 However, we have preferred to sign those forms with an asterisk * instead of a too complicated notation.

- (1) A ***saunaa**** *mussaa viit-tä lämmitä-tti-i.*
but sauna.PART black.PART way-PART warm-PASS-IMPF
‘But the sauna was warmed as a chimneyless sauna.’ (Ariste 1974:10)

In example (2) the verb *süntüä* ‘be born’ is intransitive. Consequently, the
25 intransitivity of the verb is a constraint due to which the syncretic form *saunaa* cannot be any of the two cases, i.e. the genitive-accusative nor the partitive, that occur as the case of object of an affirmative declarative clause.

- (2) *Lahzõ-t* *sünti-zí-vät* ***saunaa****
children-PL bore-IMPF-PL3 sauna.ILL
'The children were born in the sauna.' (Ariste 1974:10)

Thus, valency is decisive for the decoding of syncretic forms in examples (1) and (2). A syntactic test is actually very illustrative with respect to the functional burden of syncretic forms. In Estonian there are several syntactic means that actually eliminate the influence of paradigmatic syncretism. Agreement between an adjective attribute and noun, a passive or negative form of the verb frequently reveals the exact category paradigmatically overlapping forms (Grünthal 2001). The risk of running into semantic ambiguity is essentially decreased this way. However, Vote provides an illustrative example of the gradual re-establishing of a morphological distinction between syncretic forms. The same informant that used the syncretic illative form *saunaa* in example (2) applies the analogical suffixal illative *saunaa-sõõ* in the same story (example 3).

- (3) *Lumi läpi seinää** *kõik saunaa-sõõ* *tuiska-z.*
snow through wall.GEN-ACC all sauna-ILL whirl-IMPF
'The snow whirled into the sauna through the wall.' (Ariste 1974:10)

The verb *tuiskaz* 'whirled' is intransitive as the verb in example (2) is. There are two adverbial constructions and the first of them *läpi seinää* 'through the wall' is a prepositional phrase that includes a noun *seinää* (the nominative form is *seinä*) that morphologically could be either genitive-accusative, partitive or partitive (cf. the declension of *sauna* in table 5.3.). Although there is no structural item that would trigger the analogical illative of *saunaa-sõõ*, the informant has chosen to display it instead of the short allomorph.

The semantic structure of the clause and the transitivity or intransitivity of the verb are crucial for the decoding of the morphosyntactic information of syncretic forms. While the nominal complement of a transitive verb displays one of the object cases (the genitive-accusative or the partitive; example (1), the complement of an intransitive verb exhibits an adverbial case (example 2). Thus, in the illustrated context the verb construction draws a line between overlapping forms. However, as demonstrated in (4a–b), this is not always the

case and an elliptic clause may trigger a grammatical disorder that is caused by the syncretism.

- (4a) *Naizikko õli sauna-za päivää* ühesää*.*
 woman was sauna-INESS day.PART nine
Naizõ-t tšäü-tii vaatta-ma-a. – –
 woman-PL visit-PASS.IMPF look-INF-ILL

- (4b) *Ühsinää eb jäte-ttü öö-ssi sauna*.*
 alone not leave-PASS.PTCP.PST night-TRANSL sauna.ILL

‘The woman spent nine days in the sauna. (Other) woman went to see her. – –

(The woman) was not left alone in the sauna overnight.’ (Ariste 1974:11)

Kommentar [BiHo:]
 added the ‚h‘, was
 that right?

5

The verb denoting ‘leave (somebody or something)’ is transitive and the negative clause *eb jäte-ttü* triggers a partitive form of the object. Nevertheless, the noun *saunaa* that is in the partitive form is not the object in this particular case but an adverbial complement. The topic of the given text sample is *naizikko* ‘woman’ (example 4a) and it is semantically embedded without marking it overtly in the form of a pronoun or noun in (example 4b).

10

Consequently, there are several subtle and frequently invisible grammatical means of disambiguating the functional burden of paradigmatic overlappings. Examples (5) and (6) illustrate the importance of all constituents for the analysing of the semantic roles of syncretic forms. In example (5) the same form *saunaa* that was illustrated above in examples (1), (2) and (4b) is at the position of genitive-attribute that precedes the head *ahjoosõõ* (5). The position of a genitive attribute reveals the morphological form of the word and excludes the possibility of being decoded as the partitive as a case of object and the illative as an adverbial case denoting spatial relations.

15

20

- (5) *Oomnizõõ tulla-z, a emä on pise-ttü*
morning.ADESS come-PASS but mother is put-PASS.PTCP.PST
*kahzii kōrroo **saunaa*** ahjoo-sõõ.*
two.INSTR turn.INSTR sauna.GEN(-ACC) oven-ILL
‘They arrive in the morning but the mother has been folded double in the oven
of the sauna.’ (Ariste 1974:11)

In example (5) the attribute phrase *saunaa ahjoosõõ* is an adverbial comple-
ment. In example (6) the attribute phrase *saunaa naissa* is submitted to transi-
5 tive verb *vaattamaa* and is the object of the verb phrase.

- (6) *Juõl-ti-i: mee-mmä vaatta-maa **saunaa*** naissa!*
talk-PASS-IMP go-PL1 look-INF.ILL sauna.GEN(-ACC) woman.PART
‘They said that they will go and see the woman of the sauna.’ (Ariste 1974:13)

The decoding of *saunaa* as a genitive attribute in example (6) is based solely on
its pre-nominal position. This obviously eliminates the possibility to decode
10 *saunaa* as an adverbial constituent of the clause. Furthermore, if *saunaa* would
be an adverbial constituent in example (6), there would be an additional need
to mark the adverbial form with an analogical suffix as in example (3) above.

Conclusively, paradigmatic overlapping of cases affects at least in certain
declension types also other Finnic languages than Estonian. The compensation
15 of this handicap is sometimes visible in inflectional paradigms in the extension
of morphological strategies or productive agglutinative forms as in the case of
south-western Finnish dialects and Vote. However, the compensation does not
always take place only by morphological means but syntactic and semantic
structure. This sort of evidence suggests that syncretism actually shows to the
20 importance of syntactic means in distinguishing between grammatical rela-
tions. Accordingly, the next sections set out of this claim and seek to point out
some relevant characteristics in contact-induced changes in Estonian.

Language contacts and Estonian literary language

The influence of German language and its varieties such as Middle Low German is most illustratively seen in Estonian vocabulary and intensive lexical
 5 borrowing. The foundation and early development of literary Estonian took place under foreign interference, and German-speaking priests actively applied the language of local people in service. A vast majority of the authors of early Estonian texts and translations were Germans. This sort of non-native-speaker language cultivation was significant from the 16th to 18th century. Although
 10 there is little evidence, that bilingualism would have been wide-spread during the whole contact period, this sort of literary bilingualism undoubtedly influenced the development of literary Estonian (cf. Ariste 1940a, 1940b, 1963, 1981, Hinderling 1981).

It is frequently assumed that the influence of German increased analytical
 15 constructions and decreased syntheticity in Estonian. The most concrete evidence is found in the research of Cornelius Hasselblatt who points out that 60% of Standard Estonian phrasal verbs (prefixal verbs) have a more or less identical semantically and functionally uniform equivalent in German (Hasselblatt 1990:205). The rise and diffusion of phrasal verbs in Estonian is
 20 not limited in lexically corresponding constructions only but the general extension of the construction type. A particularly productive unit is *ära* ‘away’ that is not bound to any semantic verb category, a semantically abstract free morpheme that is more flexibly attached to verb phrases than other particles such as *ette* ‘in front of’, *läbi* ‘through’, *sisse* ‘in’, *välja* ‘out(side of)’ etc. that
 25 are used as adverbs in phrasal verbs but are frequently used as adpositions as well. The diffusion of *ära* is seen in Old Literary Estonian in which *ära* was more regularly used as a marker of perfectivity than in modern EE. In the data that originates from the 16th and the following centuries Estonian verbs with the complement *ära* functionally corresponds to several German verb prefixes
 30 such as *ab-*, *aus-*, *be-*, *davon-*, *ent-*, *er-*, *fort-*, *hinweg-*, *ver-*, *weg-*, *zer-* (Metslang 2001:455).

The high number of corresponding phrasal verbs between Standard Estonian and German is illustrated in the next examples that are drawn from the internet. The corresponding pairs are Estonian *välja ehitada* [out] ‘build’,
 35 German *ausbauen* [out] ‘build’ id. in example (7) and Estonian *läbi mängida* [through] ‘play’, German *durchspielen* [through] ‘play’ in example (8). In example (9) there is another Estonian phrasal verb *üles ütlema* ‘quit, cancel’,

literally ‘[up] say’ (German ‘versagen’ [‘auf-sagen’]), that does not correspond to a German word one-to-one but, yet, has a complete parallel in German *absagen* away say, or *aussagen* out say.

- (7) *Seal oli vaja välja ehita-da lisa-ks*
there was must out build-INF more-TRANSL
kaks suur-t ringi.
two big-PART circle.PART
‘In addition to that it was necessary to build two big circles there.’

5

- (8) *kõik ole-ks kõigi-ga korra läbi mängi-nud.*
all is-COND all-COM once.GEN-ACC through play-PTCP
‘Everyone would have played once with everyone.’

- (9) *Arvuti [on] vist ütle-nud üles.*
Computer [is] maybe say-PTCP.PST up
‘The computer was probably broken.’

10 In the most transparent cases such as examples (7) and (8) the language contact source can be detected on lexical evidence, while in example (9) the assumption of a semantic borrowing is based on the syntactic and semantic relationship between the verb and the complement. So, Estonian phrasal verb constructions pretend as grammatical replication to the model language that is German. In all three illustrated examples the dependence between two constituents is construction-specific and lexically motivated due to which the
15 adverb of a phrasal verb at issue cannot be randomly attached to any other word. In other words, those adverbs of phrasal verbs that are not freely transmissible units are parts of lexical constructions and not diffusive grammatical entities.

20 The most productive adverb that is used in phrasal verbs and clearly exhibits other than lexically conditioned properties is *ära*. Its basic meaning as a free word is ‘away’. The main difference with respect to other adverbs of phrasal verbs is that, as a rule, its occurrence in a sentence is not lexically but syntactically conditioned. Metslang (2001:446–451) concludes that some verbs may obligatorily demand the particle *ära* with the total object. Some

verbs use *ära* as an optional double marker of perfectivity. And finally, some verbs use *ära* occasionally as a perfective marker. Thus, verbal and clausal semantics are crucial for the occurrence of *ära*. Whether *ära* is used in a particular constructions therefore depends on the degree of transitivity and aspect of the verb. Although transitivity is one of those features that may demand the use of *ära* (examples 10–12), it also occurs in intransitive sentences (example 13).

- (10) *Tartu jäta-b ära aastavahetuse-ks planeeri-tud*
 Tartu leave-SG3 away turn-of-the-year-TRANSL plan-PASS.PTCP.PST
ilutulestiku.
 fireworks.GEN-ACC
 ‘Tartu lets the fireworks be that were planned for the turn of the year.’

- (11) *Kuidas uudis-t ära tun-da?*
 How news-PART away know-INF
 ‘How to recognize a piece of news?’

10

- (12) *Ol-ge mure-ta me osta-me selle Tei-lt ära!*
 be-IMP.SG2 worry-ABESS we buy-PL1 it.GEN-ACC you-ABL away
 ‘Never mind, we shall buy it from you!’

In examples (10–12) the finite verb of each sentence is transitive, namely *jätta* ‘leave’, *tunda* ‘know’ and *osta* ‘buy’. In two of them the object, *ilutulestiku* in (10) and *selle* in (12), is in the genitive-accusative that indicates high transitivity, while in (11) the object *uudist* formally is in the partitive case that indicates lower transitivity. In this particular case a genitive-accusative form of the object *uudise* would not be possible. Moreover the clausal semantics emphasise the momentaneous character of the process and, hence, a perfective aspect. Yet, the partitive form of the object, the decrease of transitivity and imperfective aspect do not exclude the occurrence of a phrasal verb as example (13) with a partitive object *pileteid* ‘tickets’ and a pronominal nominative object *nad* ‘they’ confirms.

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- (13) *Aeg muudkui lähe-b ja keegi pole veel*
time just go-SG3 and nobody is.NEG yet
pilete-i-d ära ost-nud, aga taha-ks
ticket-PL-PART away buy-PTCP.PST but want-COND
ikka nad ära müü-a.
always they away sell-INF
‘The time just keeps going and nobody has not bought the tickets yet, but [I]
would still want to sell them.’

In example (14) the verb *põleda* ‘burn’ is intransitive (note that the transitive form *põletada* is a derivation of the same stem) and *ära* is the marker of perfective aspect.

- (14) *Nädalavahetuse-l toimu-nud Pihkva ralli-l*
weekend-ADESS happen-PTCP.PST Pskov.GEN-ACC rally-ADESS
põle-s ära üks sõiduk.
burn-IMPV away one vehicle
‘A car burned down at Pskov rally that was held at the weekend.’

In conclusion, *ära* is commonly used to mark especially two grammatical properties, namely transitivity and perfective aspect. (For more examples and a more detailed description of the problem, see Metslang 2001.) The question that ultimately emerges from the intensive diffusion of *ära* is whether there are parallel grammatical changes that are related with the role of phrasal verbs. The intensive erosion of grammatical cases and suffixal morphology that was discussed above in more detail are the basis of the assumption of mutual dependence between various changes. Although the loss of individual suffixes and merger between grammatical cases was not caused by foreign interference, it is indispensable to find out the core properties that were under the influence of individual changes and briefly analyse their mutual compatibility.

The compatibility of morphological and contact-induced change

Functional take-over and compensating of an eroding or lost category has been reported to take place by morphological, syntactic reorganising of language structure, and eventually under the influence of language contact (Heine & Kuteva 2005:124, 141-143). The evidence of Estonian and other Finnic languages suggests that, in general, it appears that if the morphology of a given language is affected by the attrition of let us say suffixes, there are probably several parallel changes that affect the system. A causal interliaison may well be assumed, if there is a functional overlapping between individual constructions and grammatical categories. This does not implicate that any change that happens is caused by a preceding one. The current analysis of morphological change and language contacts in Estonian seeks to point out the intertwining between morphological attrition, syntactic change and language contacts.

The examples (10–12) above demonstrated that Estonian phrasal verb constructions are used in transitive clauses, in which the case of the object is not always the same. In the beginning of this article it was claimed that syncretism between the cases of object and the potential overlapping of the form of subject and object are a possible reason for morphosyntactic changes. The role of phrasal verbs in turn is most salient in aspect marking constructions (Metslang 2001) and aspect is the most important synchronic property of phrasal verbs.

Example (15) presents a context in which the case of object is not morphologically marked, due to which the aspect of the clause would be undefined, if the adverb *ära* would not occur as an aspect marking particle. The nominative and genitive(-accusative) form of the noun *mure* are identical and the same is valid to the possessive attribute *oma* ‘own’ that displays syncretism between the nominative, genitive(-accusative) and partitive. In example (15) there is no evidence on the form of *oma* word except that as an adjective attribute it should agree in case with the head. However, as mentioned, the morphological form of the head *mure* is ambiguous as well. Consequently, the syncretism affects the case of object and, hence, the transitivity and aspect of the clause. In this particular case the adverb *ära* marks the perfective aspect of the predicate *kirjutasin* ‘I wrote’.

- (15) *Kirjuta-si-n seepeale vist foto.kala.ee foorumi-sse*
 write-IMPF-SG1 after maybe [foto.kala.ee] forum-ILL
oma mure ära.
 own worry.GEN-ACC away
 ‘After it I wrote my concern to the forum "foto.kala.ee".’

As Metslang (2001) points out, the occurrence or lack of the phrasal verb is illustratively seen in simple transitive clauses, in which both the verb and the genitive(-accusative) form of the object indicate the restrictedness of the object and the perfective aspect. In the last examples the Estonian transitive clauses (16) are contrasted with corresponding Finnish ones (17) that in both cases lack the phrasal adverb.

- (16a) *Tüdruk sõi leiva ära.*
 girl ate bread.GEN-ACC away
 ‘The girl ate the bread.’

- (16b) *Tüdruk sõi leiba.*
 girl ate bread.PART
 ‘The girl was eating the bread.’

- (17a) *Tyttö söi leivän.*
 girl ate bread-GEN-ACC
 ‘The girl ate the bread.’

- (17b) *Tyttö söi leipää.*
 girl ate bread-PART
 ‘The girl was eating the bread.’

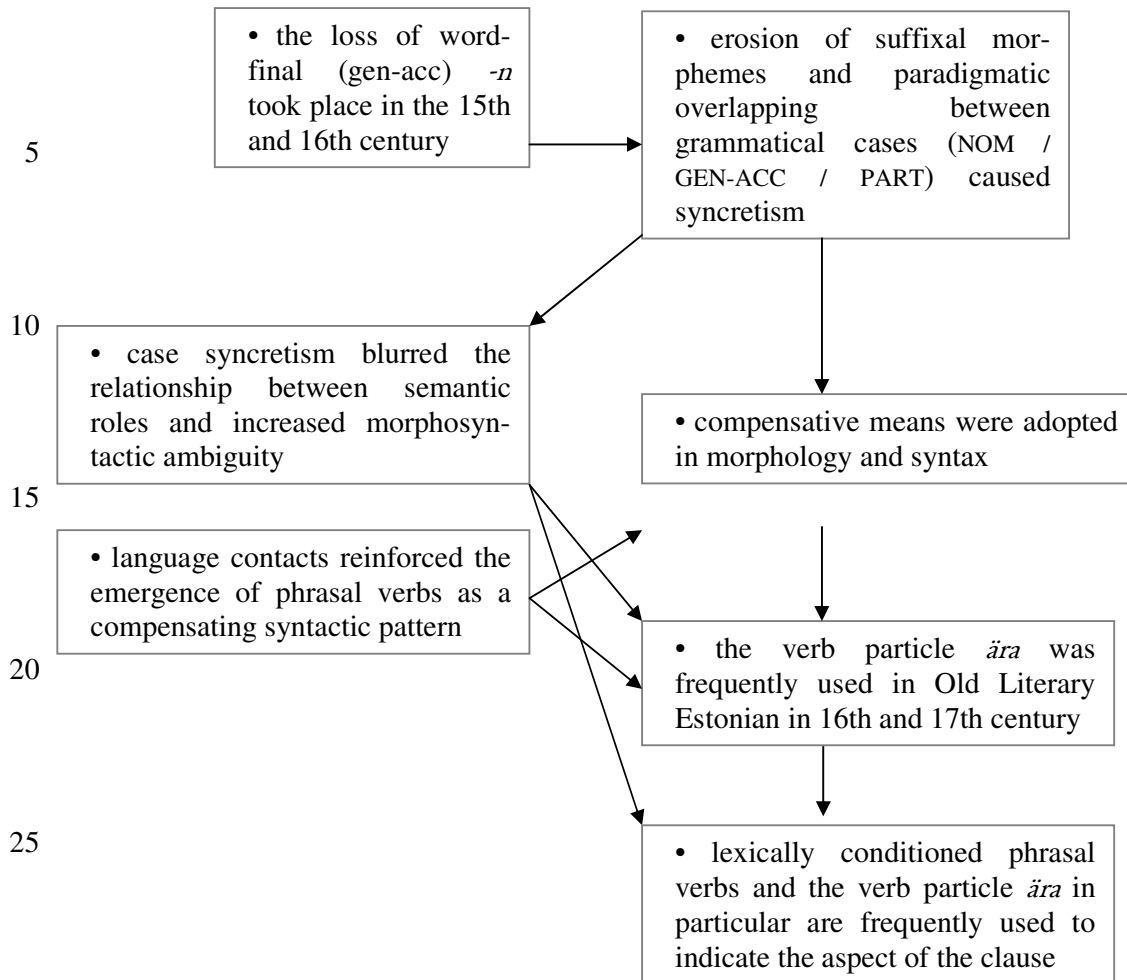
The difference of example (16a) that displays a genitive-accusative object *leiva* with respect to the three other ones is that this is the only context in which a phrasal verb occurs. The phrasal verb is less likely to occur in a transitive clause in Estonian, if the object is in the partitive. Finnish that has preserved

suffixal marking of grammatical cases does not display phrasal verbs like Estonian. Given that the combinations of verbs and adverbs in phrasal verbs are lexically conditioned it would be too simple to conclude that the loss of genitive(-accusative) *-n* caused the emergence of the category of phrasal verbs.

- 5 Yet, although the functional properties of the cases of object and phrasal verbs do not match one-to-one, the latter ones are used as syntactic compensation of the preceding morphological change.

- As Metslang (2001:475) concludes, the rise and extension of phrasal verbs in Estonian is a result of the cumulation of various changes. The relationship
 10 between morphological attrition and new syntactic constructions is not implicational, because the first one does not trigger the latter one. Otherwise one would expect to find productive phrasal verbs in languages such as south western Finnish dialects and Vot that are influenced by a similar overlapping of crucial forms and syncretism between cases that mark nominal core
 15 arguments. However, the morphological attrition and the strong increase of syncretism were an important precondition for subsequent compensating changes. The relative chronology of those phenomena that were discussed in this article suggests that the order of the changes is significant. It is summarised in figure 1.

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30 Figure 1. The relative chronology of morphological erosion of grammatical cases, syncretism and emergence of phrasal verbs in Estonian.

The main point of the relative chronology of the listed grammatical phenomena and diachronic changes is that the order between the loss of suffixal elements and compensating changes is clear. There is no reason to assume that the order would have been vice versa and the phonological loss of word-final -n would have been triggered by the rise of the category of phrasal verbs. Chronologically, the beginning of areal contacts between Estonian and

German precede the assumed periodisation of the loss of the genitive(-accusative) *-n*, because the German crusaders invaded the Baltic countries already in the beginning of 13th century. However, the evidence of phrasal verbs suggests that the influence of German in this particular category took
5 place more intensively only since the 16th century as literary use of Estonian gradually gained more space.

10 *Department of Finno-Ugrian Studies*
P.O. Box 25
FIN-00014 University of Helsinki
rgruntha@mappi.helsinki.fi

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Kommentar [BiHo4]

:-) I used all available intuition to put quotation marks around the headers of articles and to italicize the names of books. But my level of intuition when it comes to Estonian is reeeeeaaaaally low. So please have a closer look at ... the results of my intuitive access. :-)

Kommentar [BiHo5]

Is this supposed to be italicized?

Kommentar [BiHo6]

... lack of intuition concerning the quotation marks

Kommentar [BiHo7]

to be italicized?

Kommentar [BiHo8]

Any quotation marks for articles here or anything to be italicized as the title of this work?

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Kommentar [BiHo9]:
... lack of intuition concerning the quotation marks

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Kommentar [BiHo10]: I
I've added the „in“ - is that okay?

Kommentar [BiHo11]:
... added - is that okay?

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Kommentar [BiHo1
... added - is that
okay?